form group - FormControl (TDF):-

it holds group
of controls | Form Group | $\longrightarrow$ ng Form
ng Model Group

it creates a
single control | Form Control | $\longrightarrow$ ngModel.
object

Registration Form

Form group
| name | $\longrightarrow$ Form Control
| email | $\longrightarrow$ Form Control
| mobile | $\longrightarrow$ Form Control

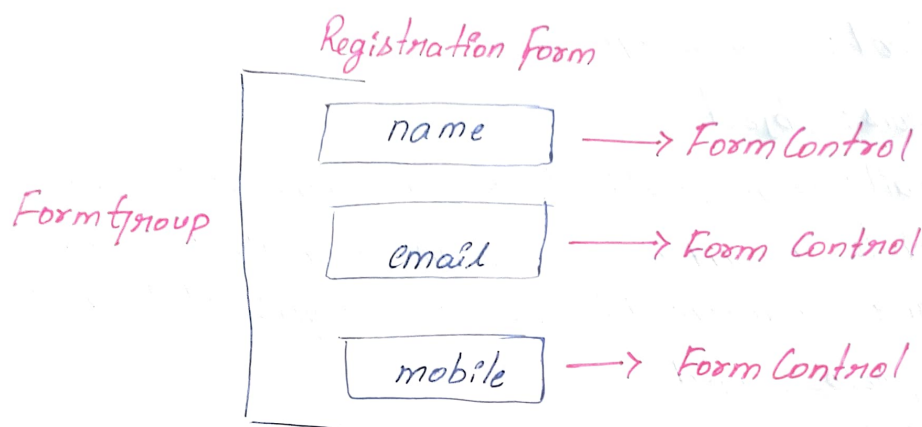## app.component.html

```
<div class="container-fluid">
  <form (ngSubmit)="onSubmit(form)" #form="ngForm">
    <div class="form-group">
      <lable> Name </lable>
      <input type="text" class="form-control" ngModel
                                    name="name">
    </div>
    <div class="form-group">
      <lable>Email </lable>
      <input type="text" class="form-control" ngModel name="email">
    </div>
    <div class="form-group">
      <lable>Phone </lable>
      <input type="text" class="form-control" ngModel name="phone">
    </div>
      <button type="submit" class="btn btn-primary">Register </button>
  </form>
```
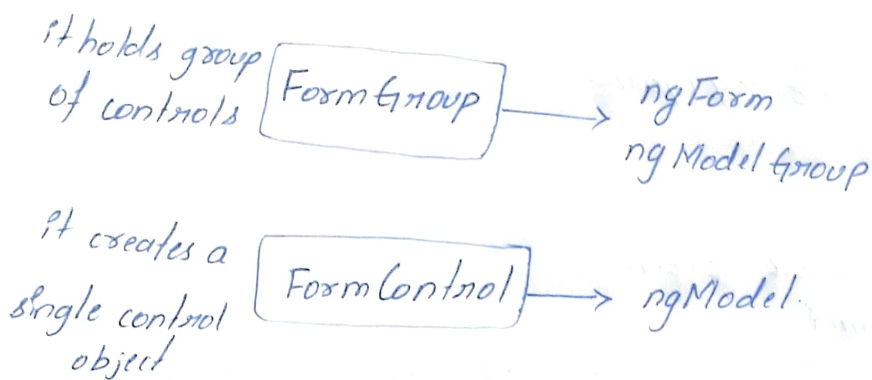
app.component.ts

```
onSubmit (form)
{
    console.log (form)
}
```

Output:-
console screen

▼ NgForm {
▷ - directives : (3) [NgModel, NgModel, NgModel]
▷   control : FormGroup
▼   Controls : Object
   ▶ email : FormControl { validator: null, async Validator: null
   ▶ mobile : FormControl { validator: null, async Validator: null
   ▶ name : Form Control { validator: null, async Validator: null
   ▶ - proto_ : object
      dirty: (...)
      disable: (...)
      enable: (...)
      errors: (...)

Form

Name

Chandu

email

chandu@gmail.com

Mobile.

9030925539

Register

ngForm will have form group. ngModel will have formControl

ngModel: in input tag or text area (if we add) (50)
we can place ngModel.

* If form-control has ngModel (in input tag), then
  it will be the part of ngForm.
* If particular input tag dosen't have ngModel
  then it will be not a part of ngForm.

: same as previous code (div code)

```
<div class="form-group">
<lable> Mobile </lable>
<input type="text" class="form-control"
                    name="mobile">
</div>
```

Output:-

▼ - directives: Array(3)
▷ 0: NgModel {_parent: NgForm, name: "name", ---- }
▷ 1: NgModel {_parent: NgForm, name="email" ---- }
▷ 2: NgModel {_parent: NgForm, name: "mobile" ---- }
  length: 3

app.component.html

  previous code.

app.component.ts

```
onSubmit (form)
{
  console.log (typeof form)
  console.log (form.value)
  console.log (form)
  console.log (form.controls)
}
```

Output:-

Object

▽ {name:"ayon", email:" aton@gmail.com",
        mobile:" 9876543210"}

    email: "@tom@gmail.com"

    mobile: "9876543210"

    name: "ayon"

▷ proto_ : Object.

▷ Ng Form { submitted: true, _directives: Array(3),
        ngSubmit: Event Emitter, form: Form Group}

▽ { name: FormControl, email: FormControl, mobile: FormContro..

    ▷ email: Form Control

    ▷ mobile: Form Control

    ▷ name: Form Control

    ▷ __proto__: Object